



ELECTRONIC TUBE REFERENCE

632B

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Gas-filled grid-controlled thyatron for controlled rectifier, relay, motor-control, industrial switching, or pulse service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	5 V / 5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM CATHODE CURRENT	30 A
FORWARD VOLTAGE DROP	12 V
<i>Thyatron section; peak/average current, inverse voltage, timing, and gas/mercury data retained as parameters.</i>	

Mercury-vapor tetrode thyatron for ignitor firing and grid-controlled rectifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 AMPEREX CONDENSED

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	300 s	MercuryVaporThyatron
Tube voltage drop	12 V	MercuryVaporThyatron
Deionization time	1000 µs	MercuryVaporThyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward voltage maximum	1500 V	MercuryVaporThyatron
Peak inverse voltage maximum	1500 V	MercuryVaporThyatron
Peak anode current maximum	30 A	MercuryVaporThyatron
Average anode current maximum	5 A	MercuryVaporThyatron
Maximum grid voltage	-300 V	MercuryVaporThyatron
Recommended mercury temperature range	+45 to +50 °C	MercuryVaporThyatron
Application	Ignitor firing and grid-controlled rectifier service Section1	

1971 RCA HB3 Binder 2 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 RCA HB3 BINDER 2 OF 7
Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward anode voltage	1500 V	—
Peak inverse anode voltage	1500 V	—
Peak cathode/anode current	30 A	—
Average cathode/anode current	2.5 A	—
Fault or surge current	150 A	ShortDuration
Ambient temperature range	40 to 80 C condensed-mercury	—
Heater voltage	5 V	—
Heater current	5 A	—
Peak grid No.2 voltage	-300 V	—
Peak grid No.1 voltage	-1000 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization time	10 us	Approximate
Deionization time	1000 us	Approximate
Anode voltage drop	12 V	Conducting
Minimum heating time	5 min	BeforeConduction

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas fill	Mercury vapor	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	0.04 pF	Approximate
Grid No.2-to-anode capacitance	3 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker